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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,403	06/20/2003	Teresa Hunkeler	I-2-0387.1US	7003

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EXAMINER

EWART, JAMES D

ART UNIT	PAPER NUMBER
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2683

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/600,403

Applicant(s)

HUNKELER, TERESA

Examiner

James D Ewart

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date April 19, 2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

Claim Rejections 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-25 are rejected under 35 USC 103(a) as being unpatentable over Crosbie (U.S. Patent Publication No. 2002/0085719) in further view of Shaheen et al. (U.S. Patent No. 6,128,490).

Referring to claim 1, Crosbie teaches a wireless local area network comprising: an access point connected to a local area network, the access point configured for providing a plurality of WTRUs with wireless access to the local area network (0006, 0016, 0063); the wireless local area network configured for broadcasting a beacon frame (0041), but does not teach broadcasting a beacon frame including handover information for handing WTRUs over from the wireless local area network to available alternative systems; and wherein geographic coverage areas of the available alternative systems overlap a geographic coverage area of the wireless local area network. Shaheen et al. teaches broadcasting a beacon frame including handover information for handing WTRUs over from the wireless local area network to available alternative systems; and wherein geographic coverage areas of the available alternative systems overlap a geographic coverage area of the wireless local area network (Column 4, Lines 7-33). Therefore at the time the invention was made, it would have been

obvious to a person of ordinary skill in the art to combine the art of Crosbie with the teaching of Shaheen et al of broadcasting a beacon frame including handover information for handing WTRUs over from the wireless local area network to available alternative systems; and wherein geographic coverage areas of the available alternative systems overlap a geographic coverage area of the wireless local area network to facilitate wireless communication with a multiple mode subscribing unit operating within a respective service area (Column 2, Line 66 to Column 3, Line 2).

Referring to claim 9, Crosbie teaches a method for handing over a WTRU from a wireless local area network comprising: broadcasting handover information in a beacon frame (0041), but does not teach determining systems that are of interest to a user of the WTRU; determining which alternative systems are available by reading the handover information in the beacon frame; retrieving cell information regarding available alternative systems from the handover information in the beacon frame; selecting an available system that is of interest to the user; performing coverage and quality of service measurements on the selected system; and handing the user over to the selected available system where the measurements are sufficient. Shaheen et al teaches determining systems that are of interest to a user of the WTRU (Column 4, Lines 23-33); determining which alternative systems are available by reading the handover information in the beacon frame (Column 4, Lines 7-33); retrieving cell information regarding available alternative systems from the handover information in the beacon frame (Column 4, Lines 23-33); selecting an available system that is of interest to the user (Column 4, Lines 30-33); performing coverage and quality of service measurements on

the selected system (Column 6, Lines 11-14 and Column 8, Lines 7-8); and handing the user over to the selected available system where the measurements are sufficient (Column 6, Lines 4-8 and Column 7, Lines 5-7). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Crosbie with the teaching of Shaheen et al of determining systems that are of interest to a user of the WTRU; determining which alternative systems are available by reading the handover information in the beacon frame; retrieving cell information regarding available alternative systems from the handover information in the beacon frame; selecting an available system that is of interest to the user; performing coverage and quality of service measurements on the selected system; and handing the user over to the selected available system where the measurements are sufficient to facilitate wireless communication with a multiple mode subscribing unit operating within a respective service area (Column 2, Line 66 to Column 3, Line 2).

Referring to claim 18, Crosbie teaches a method for handing over a WTRU from a wireless local area network comprising: broadcasting handover information in a beacon frame (0041), but does not teach reading the handover information to determine whether alternative systems are available for handover; retrieving cell information regarding the available alternative systems that are of interest from the beacon frame; determining whether the WTRU is capable of supporting the available alternative systems; selecting an available system that is of interest and the WTRU is capable of supporting; performing coverage and quality of service measurements on the selected system; and handing over to the selected available system where the measurements are sufficient. Shaheen et al teaches reading the handover information to

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determine whether alternative systems are available for handover (Column 4, Lines 23-33); retrieving cell information regarding the available alternative systems that are of interest from the beacon frame (Column 4, Line 31); determining whether the WTRU is capable of supporting the available alternative systems (Column 4, Lines 30 – 33); selecting an available system that is of interest and the WTRU is capable of supporting (Column 6, Lines 11-14 and Column 8, Lines 7-8); performing coverage and quality of service measurements on the selected system (Column 6, Lines 11-14 and Column 8, Lines 7-8); and handing over to the selected available system where the measurements are sufficient (Column 4, Lines 30-33). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to combine the art of Crosbie with the teaching of Shaheen et al. of reading the handover information to determine whether alternative systems are available for handover; retrieving cell information regarding the available alternative systems that are of interest from the beacon frame; determining whether the WTRU is capable of supporting the available alternative systems; selecting an available system that is of interest and the WTRU is capable of supporting; performing coverage and quality of service measurements on the selected system; and handing over to the selected available system where the measurements are sufficient to facilitate wireless communication with a multiple mode subscribing unit operating within a respective service area (Column 2, Line 66 to Column 3, Line 2).

Referring to claims 2, 11 and 19, Shaheen et al. further teaches wherein the handover information includes information related to network type (Column 4, Lines 7-22).

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Referring to claim 3, 12, and 20 Shaheen et al. further teaches wherein the handover information includes information related to network identity (Column 4, Lines 25-27).

Referring to claim 4, 13 and 21, Shaheen et al. further teaches wherein the handover information includes cell information for cells surrounding the cell serviced by the access point (Column 4, Lines 7-33).

Referring to claim 5, 14 and 22, Shaheen et al. further teaches wherein the handover information includes information related to the types of services offered by an available alternative system (Column 4, Lines 25-27).

Referring to claim 6, 15 and 23, Shaheen et al. further teaches wherein at least one of the available alternative technologies is a PLMN (Column 4, Lines 11-13).

Referring to claim 7, 16, and 24, Shaheen et al. further teaches wherein at least one of the available alternative technologies is another wireless local area network (Column 4, Lines 11-14).

Referring to claim 8, 17 and 25, Crosbie further teaches wherein the wireless local area network is an 802.11b network (0034).

Referring to claim 10, Shaheen et al. further teaches wherein the step of selecting an available system that is of interest to the user further includes comparing available systems with systems that are of interest to the user (Column 7, Line 61 to Column 8, Line 8).

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Conclusion

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Orlen et al. U.S. Patent No. 5,579,535 discloses personal communication system providing supplemental information mode.

Reeder U.S. Patent No. 6,088,008 discloses an apparatus and method for remotely controlled variable message display.

Klashinsky et al. U.S. Patent No. 5,617,086 discloses a traffic monitoring system.


3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James D Ewart whose telephone number is (703) 305-4826. The examiner can normally be reached on M-F 7am - 4pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (703)308-5318. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.


Ewart

October 15, 2004

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WILLIAM TROST


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